



<110> synthetic
Feldmann, Richard J.; Connectron Holding, Inc.
<120> Synthetic Connectron
<130> Jim Zegeer Law Offices - 703-684-8333
<141> 1 July 2003
<150> US 60/393,558 and US 09/866,925
<160> 34
<170> Proprietary

<210> 1
<211> 217
<212> DNA
<213> Saccharomyces cerevisiae complete genome.

<220>
<222> (12572)...(12788)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber =
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ggtggtaatg atgaagtaat ttcctgactt gttgttgtag tggtaacagg tggtaatgaa
120
gaagtaattt cctgacttgt tgttgactg gtaacaggtg gtaatgatga agtaatttcc
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tgacttggtt ttgtactggt aacaggtggt aatgatg
217

<210> 2
<211> 236
<212> DNA
<213> Saccharomyces cerevisiae complete genome.

<220>
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<223> Chromosome = 1 Strand = positive ConnectronObjectNumber =
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ggtggtaatg atgaagtaat ttcctgactt gttgttgtag tggtaacagg tggtaatgaa
120
gaagtaattt cctgacttgt tgttgactg gtaacaggtg gtaatgatga agtaatttcc
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                                synthetic
<212>      DNA
<213>      Saccharomyces cerevisiae complete genome.

<220>
<222>      (24863)...(25028)
<223>      Chromosome = 1 Strand = negative ConnectronObjectNumber =
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gtcaggaaat      tacttcttca      ttaccacctg      ttaccactac      aaaaacgagc      gaacaaacca
120
ctttggttac      cgtgacatcc      tgcgaatctc      atgtgtgcac      tgaatc
166

<210>      4

<211>      37
<212>      DNA
<213>      Escherichia coli K-12 MG1655 complete genome.

<220>
<222>      (4626130)...(4626166)
<223>      Chromosome = 1 Strand = positive ConnectronObjectNumber =
4651a

<400>
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37

<210>      5

<211>      54
<212>      DNA
<213>      Escherichia coli K-12 MG1655 complete genome.

<220>
<222>      (705150)...(705203)
<223>      Chromosome = 1 Strand = negative ConnectronObjectNumber =
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<400>
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54

<210>      6

<211>      36
<212>      DNA
<213>      Escherichia coli K-12 MG1655 complete genome.

<220>
<222>      (757718)...(757753)
<223>      Chromosome = 1 Strand = negative ConnectronObjectNumber =
975

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synthetic

<400> 6
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<210> 7

<211> 37

<212> DNA

<213> Escherichia coli K-12 MG1655 complete genome.

<220>

<222> (4626130)...(4626166)

<223> Chromosome = 1 Strand = positive ConnectronObjectNumber =
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<210> 8

<211> 54

<212> DNA

<213> Escherichia coli K-12 MG1655 complete genome.

<220>

<222> (698713)...(698766)

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54

<210> 9

<211> 36

<212> DNA

<213> Escherichia coli K-12 MG1655 complete genome.

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<222> (757718)...(757753)

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<210> 10

<211> 16

<212> DNA

<213> Saccharomyces cerevisiae complete genome - problem.

synthetic

<220>
 <222> (221330)...(221345)
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<400> 10
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<210> 11

<211> 16

<212> DNA
 <213> Saccharomyces cerevisiae complete genome - problem.

<220>
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<400> 11
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<210> 12

<211> 539

<212> DNA
 <213> Saccharomyces cerevisiae complete genome - problem.

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 <222> (448454)...(448992)
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 gcagatttta gtccaacgat ctagcgtcaa ggaatttttt tatagtggga cattgcacca
 180
 aggaagtaac ttgatacgtc gtgggtgaat ggggtctgttt tcttattcgg cggggtaata
 240
 catttttggg ggaagtttgt ctgtctgacg cgccatatgt aggtacgcca aaaagggctc
 300
 ctctacttcg aagcgcgagg tcgtatacct aataaggaaa tgtaatttat aactttttat
 360
 tatattggtc ttttcgagag cggaacgtag gtccatgttt aaagtatcca agagaatatc
 420
 cacgaagcgg ctgagcaacg aacagaatcc tggttctcct cgactaagca gatagttaag
 480
 atactgtgca ccatggaaat tgaaaacgaa agtacgtacc gactacttta tttttgcag
 539

<210> 13

<211> 158

<212> DNA

synthetic

<213> saccharomyces cerevisiae complete genome - problem.

<220>

<222> (24863)...(25028)

<223> Chromosome = 5 Strand = negative ConnectronObjectNumber =

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gcatctagga	agtaaccttg	tacgaaaata	ggcaatattt	cctgttttagg	cgattgtgac
120					
gcagatttta	gtccaacgat	ctagcgtcaa	ggaatttt		
158					

<210> 14

<211> 134

<212> DNA

<213> Halobacterium sp. NRC-1 complete genome.

<220>

<222> (732401)...(732534)

<223> Chromosome = 1 Strand = positive ConnectronObjectNumber =

6612

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gcgatggtgc	tggtcgccgc	gatcgccgcc	ggcgtcctca	tcaacactgc	cggtacctc
120					
caatccaagg	ggtc				
134					

<210> 15

<211> 193

<212> DNA

<213> Halobacterium sp. NRC-1 complete genome.

<220>

<222> (733018)...(733209)

<223> Chromosome = 1 Strand = positive ConnectronObjectNumber =

6644a

<400> 15

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gccgcgatcg	ccgccggcgt	cctcatcaac	accgccggct	acctccaatc	caaggggtcg
120					
gcaaccggtg	aggaagcctc	cgcacaggtc	tccaaccgca	tcaacatcgt	ctccgcgtac
180					
ggcaacgtca	aca				
193					

<210> 16

<211> 85

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                                synthetic
<212>      DNA
<213>      Halobacterium sp. NRC-1 complete genome.

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<222>      (773399)...(773483)
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ggcgtcctca  tcaacactgc  cggct
85

<210>      17

<211>      121
<212>      DNA
<213>      Pseudomonas aeruginosa PA01, complete genome.

<220>
<222>      (4832718)...(4832838)
<223>      Chromosome = 1 Strand = positive  ConnectronObjectNumber =
53464

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aagggcacat  ccgagcagac  caacctgctc  gccctcaacg  ccgccatcga  agccgcgcgc
120
g
121

<210>      18

<211>      194
<212>      DNA
<213>      Pseudomonas aeruginosa PA01, complete genome.

<220>
<222>      (4836528)...(4836720)
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53531

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cagcgcctcc  tgcgccaaca  tcgaggccct  caacagccgc  acggtgaaca  tcggccagat
120
cctcgaagtg  atcaagggca  tctccgagca  gaccaacctg  ctcgcctca  acgccgccat
180
cgaagccgcg  cgcg
194

<210>      19

<211>      169

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synthetic

<212> DNA
<213> Pseudomonas aeruginosa PA01, complete genome.

<220>
<222> (4838678)...(4838846)
<223> Chromosome = 1 Strand = positive ConnectronObjectNumber = 53549a

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gccctcaaca gccgcacggt gaacatcggc cagatcctcg aagtgatcaa gggcatctcc
120
gagcagacca acctgctcgc cctcaacgcc gccatcgaag ccgcgcgcg
169

<210> 20
<211> 36
<212> DNA
<213> Sequence Recognized by Synthetic DNA Binding Protein.

<220>

<400> 20
tcccatgag catagatatg caggtaggcg gcaagt
36

<210> 21
<211> 136
<212> DNA
<213> Vibrio cholerae chromosome I, complete chromosome.

<220>
<222> (952641)...(952777)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 607

<400> 21
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catagataga ctatgtgatt ggggtgaacg aacgtagcca acaccgctgc agcttcaagt
120
aggaagggtg tacctt
136

<210> 22
<211> 117
<212> DNA
<213> Vibrio cholerae chromosome I, complete chromosome.

<220>
<222> (1005810)...(1005926)
<223> Chromosome = 1 Strand = negative ConnectronObjectNumber = 646

synthetic

<400> 22
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 cagactatgt gattgggggtg aacgaacgta gccaataccg ctgcagcttc aagtagg
 117

<210> 23

<211> 36

<212> DNA

<213> Sequence Recognized by Synthetic PNA.

<220>

<400> 23
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<210> 24

<211> 136

<212> DNA

<213> Vibrio cholerae chromosome I, complete chromosome.

<220>

<222> (952641)...(952777)

<223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
 607

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 120
 aggaagggtg tacctt
 136

<210> 25

<211> 117

<212> DNA

<213> Vibrio cholerae chromosome I, complete chromosome.

<220>

<222> (1005810)...(1005926)

<223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
 646

<400> 25
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 60
 cagactatgt gattgggggtg aacgaacgta gccaataccg ctgcagcttc aagtagg
 117

synthetic

<210> 26
 <211> 15
 <212> DNA
 <213> Sequence Recognized by Synthetic Linked Pair of DNA Binding
 Objects.
 <220>

<400> 26
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 15

<210> 27
 <211> 15
 <212> DNA
 <213> Sequence Recognized by Synthetic Linked Pair of DNA Binding
 Objects.
 <220>

<400> 27
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 15

<210> 28
 <211> 64
 <212> DNA
 <213> Aeropyrum pernix K1 complete genome.
 <220>
 <222> (284008)...(284070)
 <223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
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<400> 28
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 60
 cggc
 64

<210> 29
 <211> 163
 <212> DNA
 <213> Aeropyrum pernix K1 complete genome.
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 <222> (326716)...(326878)
 <223> Chromosome = 1 Strand = negative ConnectronObjectNumber =
 295

<400> 29
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synthetic

60
ggccccgggg agaccgtgat gaaccagcc gtgcccgaca caacctgcta taatttgta
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catgaaggca cggtttgggt gaacggctca taatcctctc gat
163

<210> 30

<211> 14

<212> DNA

<213> Synthetic sequence.

<220>

<400> 30

tagaggagtaccac

14

<210> 31

<211> 14

<212> DNA

<213> Synthetic sequence.

<220>

<400> 31

atctcctcatggtg

14

<210> 32

<211> 14

<212> RNA

<213> Synthetic sequence.

<220>

<400> 32

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14

<210> 33

<211> 14

<212> RNA

<213> Synthetic sequence.

<220>

<400> 33

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14

<210> 34

<211> 14

<212> RNA

<213> Synthetic sequence.

<220>

<400>
aucuccucauggug 34
14

synthetic